



100 GROVE ST. | WORCESTER, MA 01605

September 28, 2021

Grafton Zoning Board of Appeals
Grafton Municipal Center
30 Providence Road
Grafton, MA 01519

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**Subject: Providence Road Commons
As-Built Plan Review**

Dear Zoning Board of Appeals Members:

We received the following documents in our office on August 31, 2021:

- Plans entitled Luka Drive - Asbuilt Plan & Profile, Providence Road Commons, Providence Road & Luka Drive, Grafton, Massachusetts dated May 21, 2021 and revised August 31, 2021, prepared by Graz Engineering, LLC. (2 sheets)
- Letter of Transmittal from Brian MacEwen from GRAZ Engineering, LLC to Jeff Walsh from Graves Engineering, Inc.

We also received the following documents in our office on September 28, 2021 via email:

- Plans entitled Luka Drive - Asbuilt Plan & Profile, Providence Road Commons, Providence Road & Luka Drive, Grafton, Massachusetts dated May 21, 2021 and last revised September 28, 2021, prepared by Graz Engineering, LLC. (2 sheets)

On behalf of the Grafton Zoning Board of Appeals, Graves Engineering, Inc. (GEI) has been requested to review the as-built plans for conformance with the Rules and Regulations Governing the Subdivision of Land, Grafton, Massachusetts (SR&R), dated April 27, 2009 and for substantial conformance with the approved construction plans dated October 22, 2010 and last revised August 1, 2012. GEI performed site visits between May 7, 2012 and October 23, 2018 to observe road, drainage system and stormwater management infrastructure construction, and general conformance with the approved construction plans. GEI last visited the site on September 10, 2021 with Christopher McGoldrick, Grafton Town Planner and Brian MacEwen of GRAZ Engineering, L.L.C. On behalf of the Grafton Conservation Commission, GEI has been requested to review the as-built plans for conformance with conditions in the MassDEP File Number 164-0790 Order of Conditions and in the Grafton Wetlands Bylaw and Regulations Permit # 628 and for substantial conformance with the approved construction plans dated October 22, 2010 and last revised August 1, 2012.

This letter is a follow-up to our previous review letter dated July 8, 2021. For clarity, the comments from our previous letter are *italicized* and our comments to the design's responses are depicted in **bold**. Previous comment numbering has been maintained.

Our comments follow:

As-Built Plan Review

1. *Based on our review of the as-built plans and observations at the site during construction, it appears that the project was constructed substantially in accordance with the approved plans and approved modifications.*

No further comment necessary.

2. *The plans should include the location of all utilities (compiled from other sources if necessary), including those installed by others, such as gas, electric, telephone and cable TV. (SR&R §3.3.11.2.e)*

Acknowledged. Sheet 1 was revised to include the gas and electric utilities.

3. *The abbreviations for drainage structures FD, STF, and DSD should be identified in the drawing legend.*

Acknowledged. The legend is reasonably complete.

4. *The elevations for SMH-2 should be verified. Sheet 1 states 351.90 feet and Sheet 2 states 351.40 feet for the rim. Sheet 1 states 342.09 feet and Sheet 2 states 342.08 for the invert in originating from SMH-4. Sheet 1 states 342.08 feet and Sheet 2 is undefined for the invert in originating from SMH-3. Sheet 1 states 341.99 feet and Sheet 2 states 342.09 for the invert out to SMH-1.*

Acknowledged. The elevations on Sheets 1 and 2 were revised and the revisions found to be in order.

5. *On Sheet 1, for DMH-8 the downstream structure for the outlet elevation of 384.07 feet is misidentified as DMH-7 instead of an outfall.*

Acknowledged. Sheet 1 was revised to identify the downstream structure as an outfall.

6. *On the profile view of Sheet 1, the pipe between DMH-13 and DMH-14 needs to be labeled.*

Acknowledged. Sheet 1 was revised to include a label and pertinent information for the pipe between DMH 13 and DMH 14.

7. *On Sheet 1, for DMH-15 the downstream structure associated with the outlet elevation of 387.65 feet is misidentified as DMH-14 instead of CB-14.*

Acknowledged. Sheet 1 was revised to identify the downstream structure as CB 14.

8. *On Sheet 1, for CB-14 the originating structure associated with the inlet elevation of 378.87 feet is misidentified as DMH-14 instead of DMH-15.*

Acknowledged. Sheet 1 was revised to identify the originating structure as DMH 15.

9. *The information (i.e. elevations) for DMH-19 and DMH-19A is missing from Sheet 1.*

Acknowledged. Sheet 1 was revised to include the elevation and originating/outlet structure information for DMH 19 and DMH 19A.

10. *Other than Special Condition 19 (installation of signs marking the no-disturb buffer), GEI has no issues relative to compliance with the Order of Conditions nor the Grafton Wetlands Bylaw and Regulations Permit. GEI is not aware whether the signs have been installed and did not perform a site visit to confirm the signs' installation.*

No further comment necessary.

Additional Comments, September 28, 2021

11. The latest plan revisions of September 28, 2021 identified the two recreation areas and also identified the locations of the two utility pole-mounted street lights (at the Providence Road intersections) whose installation is currently being coordinated. GEI has no issues with these latest plan revisions.

We trust this letter addresses your review requirements. Feel free to contact this office if you have any questions or comments.

Very truly yours,
Graves Engineering, Inc.



Jeffrey M. Walsh, P.E.
Principal

cc: Christopher McGoldrick, Grafton Town Planner
Leah Cameron, Grafton Conservation Agent
Brian MacEwen, PLS; GRAZ Engineering, L.L.C.